

# Super Dynamic Weather Resistant **HD Dome Network Camera WV-SW396**

WV-SW396A (Rain Wash Coating Model)



# HD/1,280 x 960 H.264 Weather Proof Camera featuring Optical 36x zoom and Super Dynamic

## **Key Features**

- 720p HD images up to 30 fps
- Newly developed 1.3 Megapixel double speed MOS Sensor
- Multiple H.264 (High profile) streams and JPEG streams ensure simultaneous real time monitoring and high resolution recording by "UniPhier®", Panasonic's proprietary System LSI platform.
- Full frame (Up to 30 fps) transmission at 1,280 x 960 image size
- 36x optical zoom with 12x digital zoom enabling 432x zoom. 72x extra optical zoom at VGA resolution with 12x digital zoom enabling 864x zoom.
- Super Dynamic and ABS (Adaptive Black Stretch) technologies deliver 128x wider dynamic range compared with conventional cameras.
- Face Super Dynamic technology ensures clear face image.
- H.264 and MPEG-4 are selectable for system migration.
- High sensitivity with Day/Night function : 0.5 lx (Color), 0.06 lx (B/W) at F1.4 (Wide)
- Adaptive Digital Noise Reduction: 2D-DNR and 3D-DNR integration ensures reduced noise and motion blur in various conditions.
- Superior color reproduction by primary (RGB) color filter
- Electronic sensitivity enhancement: Auto (Up to 16x) / OFF
- Selectable light control modes: Outdoor / Indoor / Fixed electronic shutter Outdoor / Indoor: Electronic shutter and ALC lens iris control are automatically controlled depending on the mode and luminance level. Fixed electronic shutter: Up to 1/10,000 fixed electronic shutter can be selectable.
- 360 degrees endless Panning
- · Advanced auto tracking: The camera automatically pans and tilts to follow a moving subject and keep it in the center of the image.
- PTZ control can be taken very smoothly on the user friendly GUI with 16 speeds pan/tilt and new "Drag and Zoom" operation enabling finer control. 256 speeds available for system with WV-CU950 system controller.
- Up to 256 preset positions
- 360 map shot: 8 thumbnail images at 45 deg. intervals make it simple to direct the camera easily by clicking on a thumbnail.
- Industrial grade Pan/Tilt/Zoom mechanism for high reliability
- VMD (Video Motion Detection) with 4 programmable detection areas, 15 steps sensitivity level and 10 steps detection size
- Privacy Zone can mask up to 8 private areas, such as house windows and entrances/exits.
- Alarm sources including 3 terminal input, VMD and Panasonic alarm command can trigger actions such as SDHC/SD memory recording, FTP image transfer, E-mail notification, Indication on browser, Alarm terminal output, and Panasonic protocol output.
- · Full duplex bi-directional audio allows interactive communication between camera site and monitoring site.

- JPEG image compression ratio can be changed by alarm so that higher quality image can be provided.
- Prioritized stream control: One of the video streams can be prioritized when multiple recorders or client PCs are accessing the camera so that the recorder or the client PC can maintain the frame rate.
- SDHC/SD Memory card slot for manual recording (H.264 / JPEG), alarm recording (H.264 / JPEG) and backup upon network failure (JPEG)
- H.264/MPEG-4 max. bit rate/client and Total bit rate control allows flexible network traffic management. Frame rate priority mode controls bit rate and compression ratio to provide the specified frame rate.
- Multi-language: English / Italian / French / German / Spanish / Russian / Chinese / Japanese
- IPv4/IPv6 protocol supported
- Analog Monitor output for easier installation
- Supports SSL, DDNS (viewnetcam, RFC2136)
- Still images (JPEG) can be viewed on mobile phones via Internet.
- ONVIF compliant model
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard.
- Dehumidification device for use in various weather conditions
- $\bullet$  Built-in fan/heater/sun shield for temperature changes of –50 °C ~ +55°C (–58 °F  $\sim$  +131 °F) (24 V AC), –30 °C  $\sim$  +55 °C (–22 °F  $\sim$  131 °F) (PoE+)
- Supports Power over Ethernet Plus (PoE+) IEEE 802.3at(Type2 compliant, Class 4 device) \* Does not support IEEE802.3af
- Rain wash coating dome cover (WV-SW396A)

## **Standard Accessories**

CD-ROM*1 1 pc.     Installation Guide 1 pc.	• Front/Rear S  • Code Label* <sup>2</sup> *1 The CD-ROM co (PDFs) and differ *2 This label may be The network adm
The followings are for installation.  • 8P Alarm Cable	

- un Shield Fixing Screws ....... 2 pcs. (incl. 1 spare)
- ntains the operating instructions ent kinds of tool software programs. e required for network management.
- inistrator shall retain the code label

#### **Optional Accessory**

Wall Mount Bracket WV-Q122 (PAL model only)



- User License Accessory (For MPEG-4) BB-HCA5A (NTSC model) BB-HCA5CE (PAL model, Korea)\*
- User License Accessory (For H.264) BB-HCA8A (NTSC model) BB-HCA8CE (PAL model, Korea)\*

### **Specifications**

Specif			NTSC	PAL	
Camera	Imaga Can	001		PAL	
Camera	Image Ser		1/4 type MOS Sensor		
	Effective P		Approx. 1.3 megapixel		
	Scanning I	Mode	Progressive scan		
	Scanning	Area	3.6 mm (H) x 2.7 mm (V) {5/32 inches (H) × 11/100 inches (V)}		
	Minimum Illumination Color: 0.5 lx, B/W: 0.06 lx at F1.4 (Shutter: 1/30 s, A				
		narimation	Color: 0.5 IX, B/W: 0.06 IX at F1.4 (Shutter: 1/30 s, AGC: High),  Color: 0.031 Ix, B/W: 0.004 Ix at F1.4 (Shutter: 16/30 s, AGC: High)		
			Color: 0.031 IX, B/W: 0.004 IX at F1	.4 (Shutter: 16/30 S, AGC: High)	
	White Bala		AWC (2,000 ~ 10,000 K), ATW1 (2,700 ~ 6,000 K), ATW2 (2,000 ~ 6,000		
	Light Cont	rol Mode	Indoor scene (50 Hz / 60 Hz) / Outdoor scene / Fix shutter		
				0, 2/100, 2/120, 1/100,	
			Fix shutter: OFF (1/30), 3/100, 3/120, 2/100, 2/120, 1/100, 1/120, 1/250, 1/500, 1/1,000, 1/2,000, 1/4,000, 1/10,000		
				00, 1/4,000, 1/10,000	
	Super Dyn		ON / OFF		
	Face Supe	r Dynamic	ON / OFF (Only at Super Dynamic:	ON)	
	Dynamic F	lange	52 dB typical (Super Dynamic: ON,	Light Control mode: Indoor)	
		Black Stretch	ON / OFF	Light Control model macory	
		nack Stretch			
	AGC		ON (LOW, MID, HIGH ) / OFF		
	Electronic	Sensitivity UP	OFF, max. 2/30 s, max. 4/30 s, max.	. 6/30 s, max. 10/30 s, max. 16/30	
	Black and	White Mode	Mode: AUTO1 / AUTO2 / AUTO3 /	ON / OFF	
	Digital Noise Reduction Video Motion Detection		High / Low		
			4 areas, Sensitivity: 15 steps, Detec	ction size: 10 steps	
	Privacy Zo	ne	Up to 8 zones, Gray / Mosaic		
	Auto Image Stabilizer Camera Title (OSD)		ON / OFF		
			Up to 20 alphanumeric characters (3 selectable character sizes)		
				o selectable character sizes)	
Lens	Focal Length		3.3 mm ~ 119 mm		
	Zoom Ratio		36x / 72x with extra optical zoom (a	at VGA)	
	Digital (Electronic) Zoom		12x (Max. 864x combined with extra optical zoom at VGA)		
		eld of View			
			H: 1.7° (Tele) ~ 60.2° (Wide), V: 1.3°	(166) ~ 40.0 (VVIGE)	
		Aperture Ratio	1: 1.4 (Wide) ~ 4.8 (Tele)		
	Focusing Range		2.0 m ~ ∞		
	Aperture Range		F1.4 ~ 22, Close		
Pan and Tilt			360° endless		
an ana IIIl				OEC atoma (dar di " " "	
	Panning S	peea	Manual: approx. 0.065°/s ~ 120°/s, Up to	200 steps (depending on the controller	
			Preset: up to approx. 400°/s		
	Tilting Ran	ge	-15° ~ 185° (upward-level-downwa	ird)	
		-	Tilting angle limit: 10° / 5° / 3° / 0° /		
			Tilling angle limit. 10 / 3 / 3 / 0 /	-5 /-5 /-10 /-15	
	Tilting Speed		Manual: approx.0.065°/s ~ 120°/s, Up to	256 steps (depending on the controlle	
			Preset: up to approx. 400°/s		
	Proportions	Pan/Tilt Control	Yes		
	Number of Preset Positions				
	Auto Mode		preset sequence / auto pan / auto track / patrol		
	Image Hold		ON / OFF		
	PTZ Position Display		ON / OFF		
	Self Return		10 s / 20 s / 30 s / 1 min / 2 min / 3 min / 5 min / 10 min / 20 min /		
			30 min / 60 min		
	Map Shot		360° map shot / preset map shot		
Browser GUI	Camera C	ontrol	Pan/Tilt (16 steps), Zoom, Focus, C	lick centering Drag zoom Iris	
D. 01100. G0.					
	D: 1 M 1		Preset position call and program, Auto mode		
	Display Mode		Spot, Quad: Image from 16 cameras can be displayed in 4 different Quad		
			screens or 16 split screen (JPEG only). 20 characters camera title available.		
	Camera Ti	tle	Up to 20 alphanumeric characters		
			Up to 20 alphanumeric characters		
	Clock Disp	olay	Up to 20 alphanumeric characters Time: 12H / 24H, Date: 5 formats on the		
	Clock Disp Alarm Con	lay trol	Up to 20 alphanumeric characters Time: 12H / 24H, Date: 5 formats on the Reset	browser, Summer time (Manual/AUTC	
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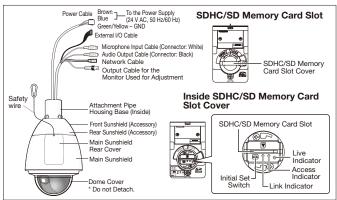
FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP

TV System		NTSC	PAL	
Network	FTP Client	Alarm image transfer, Periodic image transfer (When the FTP periodic transmission is failed, backup on an optional SDHC/SD memory card is available.)		
	No. of Simultaneous Users	Up to 14 users (Depends on network conditions)		
	SDHC/SD Memory Card	H.264 recording: Manual REC / Alarm REC (Pre/Post) / Schedule REC		
	(Option)	JPEG recording: Manual REC / Alarm REC (Post) / Backup upon network fai		
	(Option)	Compatible SD (SDHC) card: Panasonic 256 MB. 512 MB. 1 GB.		
		2 GB, 4 GB*, 8 GB*, 16 GB*, 32 GB* model * SDHC card		
	Cellular Phone Compatibility	JPEG image, panning/tilting/zoom control, AUX control (by access level)		
	Mobile Terminal Compatibility*6	iPad, iPhone, iPod touch (iOS 4.2.1 or later) Android™ mobile terminals		
Alarm	Alarm Source	3x Terminal inputs, VMD, Command alarm , Auto track		
	Alarm Actions	SD memory recording, E-mail notification, Indication on browser, Camera positioning, Preset		
		position 1 ~ 64, FTP image transfer, Terminal output, Panasonic protocol output, Auto track		
	Alarm Log	With SD memory card: 5,000 logs, Without SD memory card: 1,000 logs		
	Schedule	Alarm/VMD/Access permission, Preset position call, Position refresh, H.264 recording		
Input /	Monitor Output	1.0 V [P-P] / 75 Ω, NTSC composite,	1.0 V [P-P] / 75 Ω, PAL composite,	
Output	(for adjustment)	BNC	BNC	
	Microphone/Line Input	MIC IN and Line IN are selectable. ø3.5 mm monaural mini jack		
		(Applicable microphone: Plug-in power type),		
		Supply voltage: 2.5 V ±0.5 V, Input impedance: approx. 2 kΩ		
	Audio Output	ø3.5 mm stereo mini jack (monaural output) Line level		
	External I/O Terminals	ALARM IN 1 / DAY/NIGHT IN, ALARM IN 2 / ALARM OUT,		
	ALARM IN 3 / AUX OUT (x1 each)			
General	Safety/EMC Standard	UL (UL60065-1), FCC (Part15 ClassA),	CE	
		C-UL (CAN/CSA C22.2 No.60950-1),	(EN55022 ClassB, EN55024)	
		DOC (ICES003 ClassA)		
	Power Source/	24 V AC (50 Hz / 60 Hz): approx. 43 W Heater ON		
	Consumption	PoE Plus: approx. 24.0 W (IEEE802.3at Type2 compliant, Class 4 device) Heater ON		
	Ambient Operating	−50 °C ~ +55 °C (−58 °F ~ 131 °F) (24 V AC) *4,*5		
	Temperature/Humidity	$-30~^{\circ}\text{C} \sim +55~^{\circ}\text{C}$ (–22 $^{\circ}\text{F} \sim 131~^{\circ}\text{F})$ (PoE Plus), 90 % or less (without condensation)		
	Water and Dust Resistance IP66, IEC60529 measuring standard compatible			
	Dimensions	ø229 mm x 379 mm (H) (ø9-1/32" x 14-23/25"(H)), Diameter of the dome: 150 mm (5-29/32")		
	Mass (approx.)	4.6 kg (10.15 lbs.)		

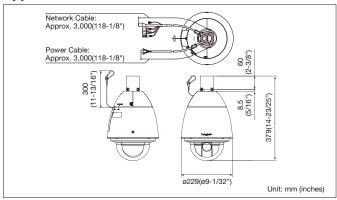
<sup>&</sup>quot;1.0 kg (IV. 10 lbs.)"

"1 Microsoft Windows 7 Starter, Microsoft Windows Vista Starter and Microsoft Windows XP Professional 64-bit Edition are not supported. "2 H.264 and MPEG-4 are alternative. "3 [4:3] and [16:9] are alternative. "4 When used with a continuous power supply (camera internal temperature must be above -10°C, and installation and startup should be done at above -30°C.) "5 When using this product at temperatures of -40°C or bellow, use the power supply between 24 V AC and 27 V AC. "6 For further information about compatible devices, refer to our website (http://panasonic.net/pss/security/support/info.html).

#### **Part Names and Functions**



### **Appearance**



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#### Important

- Safety Precaution: Carefully read the operating instructions and installation manual before using this product.
- Panasonic can not be responsible for network performance and/or other manufacturer products that reside on the network

• All TV pictures are simulated. • Masses and dimensions are approximate. • Specifications are subject to change without notice. • These products may be subject to export control regulations. • All product pictures are NTSC models.

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